

```
create database microsoft;
```

```
use microsoft;
```

```
create table employee
```

```
(  
  E_id int primary key,  
  E_Fname varchar(20),  
  E_Lname varchar(20),  
  Age int,  
  Designation varchar(20),  
  Software varchar(30)  
);
```

```
create table users
```

```
(  
  U_id int primary key,  
  U_Fname varchar(20),  
  U_Lname varchar(20),  
  Age int,  
  Issue varchar(20),  
  Issue_id int,  
  Foreign Key(Issue_id) references employee(E_id)  
);
```

```
INSERT INTO employee (E_id, E_Fname, E_Lname, Age, Designation,  
Software) VALUES  
(101, 'Rahul', 'Mehta', 28, 'Developer', 'Java'),  
(102, 'Sneha', 'Patel', 32, 'Tester', 'Selenium'),  
(103, 'Amit', 'Sharma', 35, 'Manager', 'JIRA'),  
(104, 'Neha', 'Singh', 26, 'Designer', 'Figma'),  
(105, 'Karan', 'Verma', 30, 'DevOps', 'Docker');
```

```
INSERT INTO users (U_id, U_Fname, U_Lname, Age, Issue, Issue_id)  
VALUES
```

(201, 'Priya', 'Rao', 24, 'Login Error', 101),
 (202, 'Ankit', 'Joshi', 29, 'App Crash', 102),
 (203, 'Isha', 'Kapoor', 27, 'Bug Report', 103),
 (204, 'Rohit', 'Desai', 31, 'Design Feedback', 104),
 (205, 'Megha', 'Nair', 22, 'Deployment Fail', 105);

insert into users values(206, 'Aastha ', 'Kapoor', 21, '365 not working ',
 1569);

- select * from employee join users on employee.E_id = users.Issue_id;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```

36 (203, 'Isha', 'Kapoor', 27, 'Bug Report', 103),
37 (204, 'Rohit', 'Desai', 31, 'Design Feedback', 104),
38 (205, 'Megha', 'Nair', 22, 'Deployment Fail', 105);
39
40 insert into users values(206, 'Aastha ', 'Kapoor', 21, '365 not working ', 1569);
41
42 select * from employee join users on employee.E_id = users.Issue_id;
43

```

The Results grid shows the output of the join query:

E_id	E_Fname	E_Lname	Age	Designation	Software	U_id	U_Fname	U_Lname	Age	Issue	Issue_id
101	Rahul	Mehra	28	Senior Developer	Java	201	Priya	Rao	24	Login Error	101
102	Sneha	Patel	32	Tester	Selenium	202	Ankit	Joshi	29	App Crash	102
103	Anni	Sharma	35	Manager	JIRA	203	Isha	Kapoor	27	Bug Report	103
105	Karan	Verma	30	DevOps	Docker	205	Megha	Nair	22	Deployment Fail	105
1569	Yug	Sinha	35	Jr. Backend Support	Microsoft	365	Aastha	Kapoor	21	365 not working	1569

The Action Output pane shows the execution of the queries:

Time	Action	Message	Duration / Fetch
23 14:42:29	delete from users where U_id = 204	1 row(s) affected	0.000 sec
24 14:42:41	select * from users LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25 14:42:52	select * from employee LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
26 14:45:37	select * from employee join users on employee.E_id = users.Issue_id LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
27 14:46:27	select * from employee join users on employee.E_id = users.Issue_id LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

- select * from employee right join users on employee.E_id = users.Issue_id;

The screenshot shows a database management tool interface. The left sidebar displays a schema tree with tables 'employee' and 'users'. The main window contains a SQL editor with the following code:

```

37 (204, 'Rohit', 'Desai', 31, 'Design Feedback', 104),
38 (205, 'Megha', 'Nair', 22, 'Deployment Fail', 105);
39
40 • insert into users values(206, 'Aastha ', 'Kapoor', 21, '365 not working ', 1569);
41
42 • select * from employee join users on employee.E_id = users.Issue_id;
43
44 • select * from employee right join users on employee.E_id = users.Issue_id;

```

Below the editor, the 'Result Grid' shows the output of the last query. The table has 12 columns: E_id, E_Fname, E_Lname, Age, Designation, Software, U_id, U_Fname, U_Lname, Age, Issue, and Issue_id. The results are as follows:

E_id	E_Fname	E_Lname	Age	Designation	Software	U_id	U_Fname	U_Lname	Age	Issue	Issue_id
101	Rahul	Mehta	28	Senior Developer	Java	201	Priya	Rao	24	Login Error	101
102	Sneha	Patel	32	Tester	Selenium	202	Aniket	Joshi	29	App Crash	102
103	Amit	Sharma	35	Manager	JIRA	203	Isha	Kapoor	27	Bug Report	103
105	Karan	Verma	30	DevOps	Docker	205	Megha	Nair	22	Deployment Fail	105
1569	Yug	Sinha	35	Jr. Backend Support	Microsoft 365	206	Aastha	Kapoor	21	365 not working	1569

- select * from employee left join users on employee.E_id = users.Issue_id;

```

44 • select * from employee right join users on employee.E_id = users.Issue_id;
45
46 • select * from employee left join users on employee.E_id = users.Issue_id;

```

E_id	E_Fname	E_Lname	Age	Designation	Software	U_id	U_Fname	U_Lname	Age	Issue	Issue_id
101	Rahul	Mehta	28	Senior Developer	Java	201	Priya	Rao	24	Login Error	101
102	Sneha	Patel	32	Tester	Selenium	202	Ankit	Joshi	29	App Crash	102
103	Amit	Sharma	35	Manager	JIRA	203	Isha	Kapoor	27	Bug Report	103
104	Neha	Singh	26	Designer	Figma	204	Megha	Nair	22	Deployment Fail	104
105	Karan	Verma	30	DevOps	Docker	205	Megha	Nair	22	Deployment Fail	105
1513	Nicholas	Berny	28	Software Developer	Power BI	206	Aastha	Kapoor	21	365 not working	1569
1569	Yug	Sinha	35	Jr. Backend Support	Microsoft	365	Aastha	Kapoor	21	365 not working	1569

- select * from employee cross join users;

```

45
46 • select * from employee left join users on employee.E_id = users.Issue_id;
47
48 • select * from employee cross join users;
49
50 • update employee set designation = "Senior Developer" where E_id = 101;
51
52 • delete from users where U_id = 204;

```

E_id	E_Fname	E_Lname	Age	Designation	Software	U_id	U_Fname	U_Lname	Age	Issue	Issue_id
101	Rahul	Mehta	28	Senior Developer	Java	206	Aastha	Kapoor	21	365 not working	1569
101	Rahul	Mehta	28	Senior Developer	Java	205	Megha	Nair	22	Deployment Fail	105
101	Rahul	Mehta	28	Senior Developer	Java	203	Isha	Kapoor	27	Bug Report	103
101	Rahul	Mehta	28	Senior Developer	Java	202	Ankit	Joshi	29	App Crash	102
101	Rahul	Mehta	28	Senior Developer	Java	201	Priya	Rao	24	Login Error	101
102	Sneha	Patel	32	Tester	Selenium	206	Aastha	Kapoor	21	365 not working	1569
102	Sneha	Patel	32	Tester	Selenium	205	Megha	Nair	22	Deployment Fail	105
102	Sneha	Patel	32	Tester	Selenium	203	Isha	Kapoor	27	Bug Report	103
102	Sneha	Patel	32	Tester	Selenium	202	Ankit	Joshi	29	App Crash	102
102	Sneha	Patel	32	Tester	Selenium	201	Priya	Rao	24	Login Error	101
103	Amit	Sharma	35	Manager	JIRA	206	Aastha	Kapoor	21	365 not working	1569
103	Amit	Sharma	35	Manager	JIRA	205	Megha	Nair	22	Deployment Fail	105
103	Amit	Sharma	35	Manager	JIRA	203	Isha	Kapoor	27	Bug Report	103
103	Amit	Sharma	35	Manager	JIRA	202	Ankit	Joshi	29	App Crash	102
103	Amit	Sharma	35	Manager	JIRA	201	Priya	Rao	24	Login Error	101
104	Neha	Singh	26	Designer	Figma	206	Aastha	Kapoor	21	365 not working	1569
104	Neha	Singh	26	Designer	Figma	205	Megha	Nair	22	Deployment Fail	105
104	Neha	Singh	26	Designer	Figma	203	Isha	Kapoor	27	Bug Report	103
104	Neha	Singh	26	Designer	Figma	202	Ankit	Joshi	29	App Crash	102
104	Neha	Singh	26	Designer	Figma	201	Priya	Rao	24	Login Error	101

- update employee set designation = "Senior Developer" where E_id = 101;

- Delete from users where U_id = 204;
- select * from employee where Software = "Java";

53

54 • `select * from employee where Software = "Java";`

Result Grid			Filter Rows:	<input type="text"/>	Edit:				Export/Import:			Wrap Cell Content:	
E_id	E_Fname	E_Lname	Age	Designation	Software								
101	Rahul	Mehta	28	Senior Developer	Java								
NULL	NULL	NULL	NULL	NULL	NULL								

- select * from users;

54 • `select * from employee where Software =`

55

56 • `select * from users;`

Result Grid			Filter Rows:	<input type="text"/>	Edit:				Export/Import:		
U_id	U_Fname	U_Lname	Age	Issue	Issue_id						
201	Priya	Rao	24	Login Error	101						
202	Ankit	Joshi	29	App Crash	102						
203	Isha	Kapoor	27	Bug Report	103						
205	Megha	Nair	22	Deployment Fail	105						
206	Aastha	Kapoor	21	365 not working	1569						
NULL	NULL	NULL	NULL	NULL	NULL						

- select * from employee;

57

58 • select * from employee;

Result Grid						
		Filter Rows:		Edit:		Export/Import:
						Wrap Cell Content:
	E_id	E_Fname	E_Lname	Age	Designation	Software
▶	101	Rahul	Mehta	28	Senior Developer	Java
	102	Sneha	Patel	32	Tester	Selenium
	103	Amit	Sharma	35	Manager	JIRA
	104	Neha	Singh	26	Designer	Figma
	105	Karan	Verma	30	DevOps	Docker
	1513	Nicholas	Berny	28	Software Developer	Power BI
	1569	Yug	Sinha	35	Jr. Backend Support	Microsoft 365
*	NULL	NULL	NULL	NULL	NULL	NULL